27598 S/049/61/000/009/002/004 D214/D304

Magnetron systems of transforming ...

It is stated in conclusion that the magnetron systems have a relatively high sensitivity (1-2 micro-amp -- micron current sensitivity and 15-50 mV/micron voltage sensitivity) which is independent of the oscillations period. They can be used for registering seismic earth crust displacements. Small dimensions and simplicity permit their use in new seismograph constructions. The magnetron systems can be used for transducing seismic oscillations into voltage, current or high frequency at the output; this versatility makes it possible to extend considerably the possibility of recording and the further amplification of seismic oscillations. With the help of magnetron systems it becomes comparatively easy to realize the cathode ray tube, galvanometric and magnetic methods of recording of seismic waves. There are 4 figures, 3 non-Sovietbloc and 6 Soviet-bloc references. The references to the Englishlanguage publications read as follows: P.C. Gane, An electrostatic seismometer, Bull. Seism. Soc. Amer. 38, no. 2, 1948; J.A. Volk, The electronic seismograph Bull. Seism. Soc. Amer. 40, no. 2, 1950.

Card 4/4

27598 \$/049/61/000/009/002/004 Magnetron systems of transforming ... D214/D304

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova (Leningrad State University im. A.A. Zhda-

SUBMITTED: March 18, 1961

Card 4/4

CIA-RDP86-00513R000930010011-6" **APPROVED FOR RELEASE: 07/12/2001**

29869 \$/169/61/000/009/011/056 D228/D304

9,9865 (arso 1327)

AUTHORS:

Lin'kov, Ye. M., and Savarenskiy, Ye. F.

TITLE:

Device for registering the trajectory of movement

during microseismic vibrations

PERIODICAL:

Referativnyy zhurnal. Geofizika, no. 9, 1961, 13, abstract 9AlO4 (V sb. Seysmich. issled. no. 4, M.,

AN SSSR, 1960, 133-137)

TEXT: A device is described, by means of which the horizontal trajectories of the movement of particles of the earth's surface during the
passage of microseisms are converted into electron-pencil vibrations in
an electron-ray tube. If stormy microseisms represent on the whole Rayleigh waves, then straight lines or elongated ellipses--whose long axes
are directed, like the straight lines, to the region of microseismic
stimulation---are drawn on the tube's screen. The device has two identical
channels for the two components; each channel contains a preliminary and
a final intensifier. Observations made by means of the described device

Card 1/2

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	Device for registering	29869 S/1 89 /61/000/009/011/056 D228/D304	X	
	at Pulkova showed that at the time of are principally elongated in a NW diplete translation.	of microseismic storms the trajectories irection. Abstracter's note: Com-		
-				
	Card 2/2			
				10-50 Z.1

LIN'KOV, Ye.M.

Magnetron systems for the conversion of seismic oscillations into electric oscillations. Izv. All SSSR. Ser. geofiz. no.9:1373-1376 (MIRA 14:9) S '61.

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. (Seismometry)

\$/785/61/000/010/001/002

AUTHORS: Lin'kov, Ye.M., Hsiao Wei-Wen'.

TITLE: Magnetron transducers for seismic oscillations.

SOURCE: USSR. Ministerstvo geologii i okhrany nedr. Osoboye konstruktorskoye

byuro. Geofizicheskoye priborostroyeniye. no. 10. Leningrad, 1961,

35-44.

The paper describes the operating principle, design, and performance TEXT: of highly sensitive magnetron transducers, with particular application to the seismograph constructed by D.P.Kirnos. The magnetron transducer transforms seismic oscillations into electric oscillations by means of the modulation of an electron flux by an external magnetic field within the magnetron. The trajectories of the electrons are more or less curved, depending on the intensity of the magnetic field, whereupon some electrons hit and other miss the anode. A simple magnetron may consist of a straight cylindrical cathode and a coaxial cylindrical anode aligned with a permanent magnetic field. Modulation can be achieved either by relative displacement of the magnetron with respect to the magnetic-field source (solenoid, permanent magnet) or by magnetic-field variations. An electron contained in the magnetron is affected by both the electric and the magnetic field; the practically most important configuration is that of a mutually perpendicular arrangement of the fields. Disregarding edge effects and assuming the absence of a space charge near the cathode, expressions Card 1/2

Magnetron transducers for seismic oscillations.

S/785/61/000/010/001/002

for the position of an electron at a time t are obtained which define the trajectory of the electron as a cycloid which, without a magnetic field, degenerates to (radial) straight lines, and which, beyond a certain critical magnetic-field strength, Herit, becomes too sharply curved to reach the anode, whereupon the diode flux drops sharply. Expressions for the critical field strength are derived for flat and cylindrical diodes. For commercially available pentodes the critical field strength is 100 to 350 oc. In real pentodes the anode-current drop-off is not sudden, but gradual, and there is an "effective magnetic field," Heff, which corresponds to the minimal anode current. The fact that, for values of H below Heff, the slope of the anodecurrent-vs.-H curve is negative and that of the grid-current-vs.-H curve is positive, permits the construction of a magnetron transducer with push-pull output, which is especially helpful in galvanometric recording. The circuitry and amplitude characteristics of typical transducers are shown, and the existence of a fairly extended linear portion of the curve is ascertained, which ensures an undistorted registration of seismic oscillations. There are 5 figures and 7 references (1 Soviet: Lin kov, Ye. M., et al., AN SSSR, Izv., ser.geofiz., no.2, 1961; 5 English-language, including Gouin, P., Annales de géophysique, no.3, 1957, 13; 1 French-language).

ASSOCIATION: None given.

Card 2/2

s/703/62/000/303/001/001 A061/A126

AUTHORS:

Lin'kov, Ye.M., Tripol'nikov, V.P., Sabantsev, S.B.

TITLE:

Seismic polarization devices

SOURCE:

Leningrad. Universitet. Uchenyye zapiski, no. 303. Seriya fizicheskikh i geologicheskikh nauk, no. 13, 1962. Voprosy geofiziki,

135 - 136

A device developed at the Kafedra zemnoy kory LGU (Department of Lithosphere Physics of LGU) makes it possible to observe particle motion in seismic waves in the horizontal plane by resorting to relatively simple means. Seismic or microseismic waves are measured by two norizontal seismographs mounted at an angle of 90° to each other. Signals are fed to two identical amplifiers, and the amplified oscillations are observed on the screen of a cathode-ray oscilloscope. Two versions have been worked out. The former, designed for the recording of earthquake waves, consists of a two-stage 12 % 1 J (12ZhlL) tube amplifier working with microcurrents. The very moment when earthquake waves appear the device is switched on. The other version has a larger amplification

Card 1/2

Seismic polarization devices

factor, and is intended for the recording of microseismic waves during storms. The amplifier consists of an a-c stage with transformer, and of a d-c stage. The oscillations are recorded by a loop oscillograph. There are 2 figures.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010011-6"

LIN'KOV, Ye.M.; SYAO VEY-VEN'

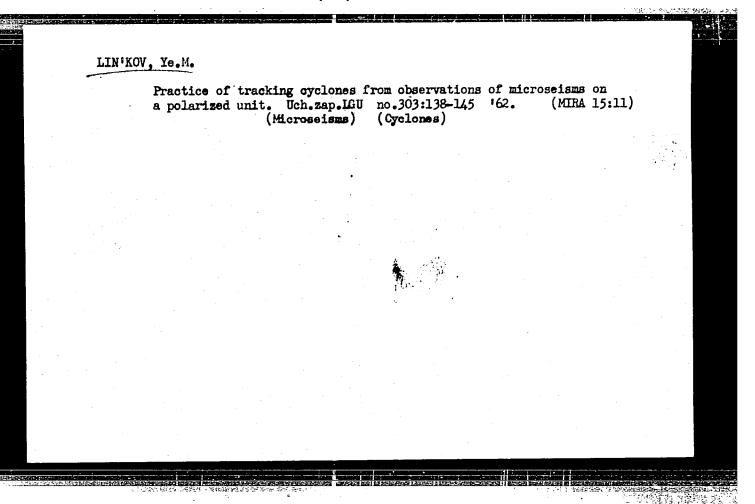
Magnetron converters of seismic vibrations. Geofiz. prib. no.10:
(MIRA 15:3)
35-44 '61. (Seismometers)

LIN'KOV, Ye.M.; TRIPOL'NIKOV, V.P.; SABANTSEV, S.B.

Polarization of seismic units. Uch.zap.KGU no.303:135-137 '62.

(MIRA 15:11)

(Seismometers)



LIN'KOV, Ye.M.; TRIPOL'NIKOV, V.P.

Some results of observations of microseisms using a polarized apparatus and a three-point station. Izv. AN SSSR. Ser. geofiz. no.11:1562-1566 N '62. (MIRA 15:11)

 Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova. (Seismic waves)

LIN'KOV, Ye.M., kand.fizikc-matem. nauk; SMIRNOV, V.A., inzh.

Development and testing of a tiltmeter. [Trudy] VNIMI no.49;
84-89 '62. (MIRA 17:4)

1. Leningradskiy gosudarstvennyy universitet (for Lin'kov).
2. Vsenoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut (for Smirnov).

L 19034-63 EWT(1)/BDS AFFTC/ESD-3 ACCESSION NR: AP3007666 \$/0049/63/000/009/1357/1360 AUTHOR: Lin'kov, Ye. M. Long-period magnetron SOURCE: AN SSSR. Izvestiya. Seriya geofizicheskaya, 1357-1360 TOPIC TAGS: magnetron seismograph, long period seismograph, feedback device, electrodynamic converter, seismograph frequency ABSTRACT: The Kafedra fizikizemnoy kory* (Department of Physics of the Earth's Crust), Leningrad State University, has devised a method by which a long-period seismograph can be constructed without using a long-period galvanometer. Based on the application of the positive feedback between the electrodynamic converter and the converter reacting to pendulum deviations, this method makes it possible to change the frequency of the pendulum within a wide Card 1/01

L 19034-63

ACCESSION NR: AP3007666 ...

range and to increase instrument magnification by several times. The method has been used to increase the efficiency of the vertical pendulum of the Kirnos seismograph (improved version by V. T. Arkhangel'skiy), tuned to a 9-sec natural-oscillation period and equipped with a magnetron converter. The new seismograph has been installed at the "Simferopol" seismic station and used to record several earthquakes. The feedback principle is illustrated in Figs. 1-3 of the Enclosure. The frequency characteristics of long-period seismographs are given in Fig. 4. Surface waves recorded with this equipment during an Iranian earthquake are shown in Fig. 5. "The work was carried out on the initiative and under the supervision of Ye. F. Savarenskiy, to whom the author expresses his sincere appreciation." Orig. art. has: 5 figures.

ASSOCIATION: Leningradskiy gosudarstvenny*y universitet im. A. A. Zhdanova (Leningrad State University)

SUBMITTED: 22Dec62

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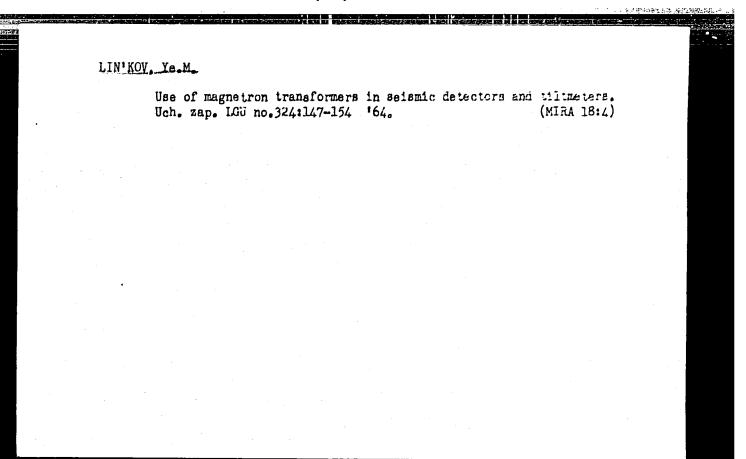
NO REF SOV: 001

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Card 2/62

LIN'KOV, Ye.M.; LIN'KOV, A.M.

Positive feedback in a seismograph circuit. Geofiz. prib. no.15; 129-134 "63. (MIRA 17:4)



LIN'KOV, Ye.M.; TRIPOL'NIKOV, V.F.

Apparatus and methods for studying motions due to microseigns.

Uch. zap. LGU no.324:142-146 464. (MIRA 18:4)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010011-6"

以清洁。

LIN'KOV, Ye.M.; SMIRNOV, V.A.; VINOKUR, B.Sh.

Tiltmeter studies of rock bursts. Uch. zz;. LEU no.324:155-161 '64.

(MIRA 18:4)

L 13844-66 EWT(1)/EWA(h) GW

ACC NR: AR6000812

SOURCE CODE: UR/0169/65/000/009/G017/G017

SOURCE: Ref. zh. Geofizika, Abs. 9G141

AUTHOR: Lin'kov, Ye. M.; Tripol'nikov, V. P.

TITLE: Data on motion for the case of microseismic waves

CITED SOURCE: Sb. Seysmich. issledovaniya. No. 6. M., Nauka, 1965, 48-59

TOPIC TAGS: microseism, seismic wave, seismography, Rayleigh wave

TRANSLATION: The authors describe equipment and methods used for observing the trajectories of particles in microseismic waves in the horizontal plane. Use is made of two identical Kirnos seismographs placed perpendicular to one another and a 2-channel polarization unit with amplification channel. The amplification factor is 10⁶. The observations were made visually and with the use of motion picture equipment. Parallel observations were made by a triple microseismic station in Pulkovo. The recordings of both installations were used for plotting the complete vector for motion of the microseismic vibrations in space, comparing the azimuths at the source, and calculating the angle of inclination to the horizontal for the full vector of

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UDC: 550.342

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motion f	or waves ellipti	cally polarized	in the horizontal	plane. The r	esults show	2
polarize	d in the vertica	sist or pseudo-R l and horizontal	ayleigh and pseud	lo-Love waves a	nd of waves	the sea
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SHKOL'NIK, R.Ya.; DOMAN, N.G.; SPEKTOROV, K.S.; LIN'KOVA, Ye.A.

Insoluble products of photosynthesis of a synchronous culture of Chlorella pyrenoidosa at various stages of development. Fiziol.rast. 12 no.6:1005-1011 N-D '65.

(MIRA 18:12)

1. Institut biokhimii imeni A.N.Bakha AN SSSR i Institut fiziologii rasteniy imeni K.A.Timiryazeva AN SSSR, Moskva. Submitted October 5, 1964.

LYUSHIN, Sergey Fedorovich; RASSKAZOV, Valeriy Antonovich; SHEYKH-ALI,
Davlet Mukhamedzhanovich; IKSANOVA, Raziya Rakhmatulovna;
LIN'KOV, Yevgeniy Petrovich; KAYESHKOVA, S.M., vedushchiy red.; MUKHI-NA, E.A., tekhn. red.

[Paraffin control in the recovery of oil] Bor'ba s otlozheniami parafina pri dobyche nefti. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 149 p. (MIRA 14:7) (Oil wells) (Paraffins)

	L 31970_66 EWT(d) IJP(c)						
4	ACC NR: AF6007530 9	OURCE CODE: UR/0406/65/001/002/0018/0026					
1	AUTHOR: Lin. kov, Yu. N.	37					
というなはないのではないので	ORO: none	\mathcal{B}					
	TITLE: Calculation of the E-entrophy of a random vector for a small E SOURCE: Problemy peredachi informatsii, v. 1, no. 2, 1965, 18-26						
i H							
1	TOFIC TAGS: vector analysis, entrophy						
はないないないとはずないという	ABSTRACT: The author seeks an expression for the ϵ -entrophy $H_{\epsilon}(\xi)$ of an n-dimensional random vector whose domain satisfies some rather general conditions. The main result is the following theorem. Let $\xi = (\xi_1, \dots, \xi_n)$ be an n-dimensional random vector with values in n-dimensional Euclidian space with a probability distribution given by a density $P_{\epsilon}(x)$, which satisfies the following conditions: (1) for some positive number r_{ϵ} $p_{\epsilon}(x) \leq \varphi(x)$ for $x \in U_{r_{\epsilon}} = X \setminus U_{r_{\epsilon}}$ where $U_{r_{\epsilon}}$ is a sphere of radius r_{ϵ} and $(x) = \frac{1}{2} \sum_{n=1}^{\infty} \frac{1}{n} \sum_{n=1}^{\infty} \frac$						
	(a) a) $\rho(x, y) = \rho(x - y)$, (b) $\rho(x) = 0$ only for $x = 0$ and for	some v>0, where $\lim_{ x \to 0} x - \rho(x) < \infty$					
	Card 1/3	UDC: 621.392.12					

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ACC NR: AP6007530
                                                                                                                                          0
              (c)\rho(x) \ge \psi(|x|), where -\psi(u) \ne 0, \psi(0) = 0, \psi(u_1) \le \psi(u_2), if 0 \le u_1 < u_{k_1} (d) \int_{-\rho^2(x)}^{\rho^2(x)} e^{-\psi(x)} dx < \infty
Then, since a \rightarrow 0
                     H_{a}(\xi) = \log \left[ a(\epsilon) e^{-\epsilon h(\epsilon)} \right] + h(\xi) + O(1),
where a(\xi) and b(\xi) are solutions of the equations
                                                                                    a\int \rho(x)e^{-b\rho(x)}dx=e_0
The proof is given by a series of lemmas. If we also assume \rho(x,y) = \rho(|x-y|)
                                  then we can give asymptotic expressions for a (E) and b (E):
and 0 < \rho'(0) < \infty;
                              a(e) \approx \frac{\Gamma\left(\frac{n}{2}\right)[n\rho'(0)]^n}{2\pi^{n/2}(n-1)!e^n}, \quad b(e) \approx \frac{n}{e}
Similar expressions are serived if \rho'(0) = 0, 1 \le i < k, 0 < \bar{\rho}^{(k)}(0) < \infty
For the specific case \rho(x,y) = \left(\frac{1}{n}\sum_{k=1}^{n}|y_k - x_k|^{\alpha}\right)^{\beta},
positive numbers
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一方面は特別的では、そのことはなるながらの特別などのできることをあったいれるのであるができましていることには、こ

ACC NRI AF6007530

$$H_{\epsilon}(\xi) = \frac{n}{\alpha \beta} \log \frac{1}{\epsilon} + h(\xi) -$$

$$-\log\left\{\left(\frac{\alpha\beta\varepsilon}{n}\right)^{n/\alpha\beta}\left[\frac{2}{\alpha}\Gamma\left(\frac{1}{\alpha}\right)\right]^{n}\frac{\Gamma\left(\frac{n}{\alpha\beta}\right)}{\beta\Gamma\left(\frac{n}{\alpha}\right)}\right\}+0(1).$$

This problem was formulated for the author by R. L. Dobrushin and was solved under his guidance for which the author wishes to express his deep appreciation. Orig. art. has: 11 formulas.

SUB CODE: 12/ SUBM DATE: 26Dec64/ ORIG REF: 003/ OTH REF: 003

Card 3/3 IC

ACCESSION NR: AR4042166

S/0274/64/000/005/A044/A044

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz'. Svodny*y tom, Abs. 5A230

AUTHOR: Tarasenko, F. P.; Lin'kov, Yu. N.

TITLE: Problems of spaced reception from the point of view of the information theory

CITED SOURCE: Tr. Sibirsk. fiz. tekhn. in-ta, vy*p. 42, 1963, 168-180

TOPIC TAGS: information theory, spaced reception, spaced system, optimum process

TRANSLATION: For a system of n-channels, to whose input is fed a useful signal and in each of whose channels there are noises and fluctuations, there is the problem of finding a method of combining signals on the output of n-channels such that the obtained signal retains the most possible share of information on the useful signal. Spaced reception is considered from the point of view of the information

Card 1/2

ACCESSION NR: AR4042166

theory and a formula is given for finding algorithms of optimum methods of reception in the presence of definite a priori data. An ideal spaced system is considered and the quantity of information for both incoherent reception in the presence of a fluctuations is determined. The necessary number of channels is determined with different signal-to-noise ratios. Some methods of combining of signals (quadratic and linear) are considered. Graphs are given for the quantity of information depending upon the number of channels with a fixed signal-to-noise ratio and for the quantity of information depending upon the signal-to-noise ratio for different number of channels. The appendix gives the derivation of the formula of rectangles for the calculation of multiple integrals. Five illustrations. Bibliography: 18 references.

SUB CODE: DP, MA

ENCL: 00

Card 2/2

TOMOVA, N.; LINKOVA, E.; SPEKTOROV, K.

The effect of different nitrigen sources on the growth and levelopment of a synchronous culture of Chlorella pyrenoidosa Pringsh. 32. Doklady BAN 17 no.8:757-760 '64.

1. Institute of Plant Physiology of the Bulgarian Academy of Sciences. Submitted by Academician I. Emanouiloff [Emanuilov, I.].

LINKOVA, Eva

Conference on new technology in the bizuterie National Enterprise Sklar a keramik 14 no.11: Suppl; insert N '64.

1. Bizuterie National Enterprise, Jablonec nad Nisou.

SHCHEPKOVSKAYA, Ye.V., kandidat meditsinskikh nauk. (Khar'kov); GEKHTMAN, M.Ya. (Khar'kov); VOLOVIK, S.S.(Khar'kov); LINKOVA, F.Y.(Khar'kov); SOKOL'SKIY, S.L., kandidat meditsinskikh nauk. (Khar'kov); DUKHIMA, B.S. (Khar'kov); MARKUS, L.M. (Khar'kov)

New effective method for the compound treatment of tabetic atrophy of the optic nerves. Vrach. delo no.1:89 Ja '57 (MIRA 10:4)

1. Ukrainskiy nauchno-issledovatel'skiy kozhno-venerolgoicheskiy institut.

(OPTIC NERVE-DISEASES) (NERVOUS SYSTEM-SYPHILIS)

FEDOROV, A.A., LINKOVA, P.V.

Determination of microgram amounts of phosphorus in metallic chromium. Zav.lab. 26 no.5:535-536 '60. (MIRA 13:7)

1. TSentral nyy nauchno-issledovatel skiy institut chernoy metallurgii.
(Phosphorus--Analysis) (Chromium--Analysis)

s/032/61/027/012/001/015 B145/B147

AUTHORS:

Fedorov, A. A., Krichevskaya, A. M., and Linkova, F. V.

TITLE:

Determination of sulfur in metallic chromium

PERIODICAL:

Zavodskaya laboratoriya, v. 27, no. 12, 1961, 1460 - 1462

TEXT: The method suggested is based on the formation of methylene blue from H_2 S with dimethyl-p-phenylene diamine sulfate and trivalent iron in hydrochloric acid solution. It permits the determination of sulfur in metallic chromium within about 1.5 hr with an accuracy of $1\cdot 10^{-4}\%$. The method can be used for the analysis of ferrochromium, Cr-Nb alloys, some types of steel, iron, cast iron, silicon, niobium, nitric, hydrochloric, and phosphoric acid salts of alkali metals, as well as bases and acids, Tungsten disturbs the analysis. Orthophosphoric acid is used as solvent. In the presence of sulfate sulfur, 0.1 g of metallic chromium is added to 30 milliliters of acid as reducing agent. Purified nitrogen is used as carrier gas. The reaction vessel of quartz is cooled (-1 to -5°C). 0.5 - 1 g of the sample is dissolved in 30 milliliters of orthophosphoric acid in an N_2 atmosphere

Card 1/2

S/032/61/027/012/001/015 B145/B147

Determination of sulfur in metallic...

600 - 650°C and at a low rate of the N₂ flow the H₂S formed is collected in 10 milliliters of 5% NaOH. This solution containing H₂S is filled into a 50-milliliter measuring flask, and mixed with distilled HCl until a weakly acid reaction takes place (Congo red as indicator). To this, further distilled HCl corresponding to 5 milliliters of HCl is added (specific gravity 1.19) furthermore, 2 milliliters of a 0.4% solution of dimethyl-p-phenylene diamine sulfate, and 2 milliliters of a 1% FeCl₃·6H₂O solution in hydrochloric acid (1:20). After shaking, filling up with H₂O, and 20 min standing, the mixture is photometrically measured with red filter in 20 mm bulbs, and the sulfur content of the sample determined from a calibration curve. There are 1 figure, 1 table, and 6 references: 4 Soviet and 2 non-Soviet The reference to the English-language publication reads as follows: A. Steigman, J. Soc. Chem. Ind., 61, I, 18 (1942).

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii im. I. P. Bardina (Central Scientific Research Institute of Ferrous Metallurgy imeni I. P. Bardin)

Card 2/2

31729

55300

S/081/61/000/021/030/094 B101/B147

AUTHORS:

Fedorov, A. A., Ozerskaya, F. A., Malinina, R. D., Sokolova,

Z. M., Linkova, F. V.

TITLE:

Determination of manganese, iron, nickel, and lead contents

in pure electrolytic chromium

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1961, 112, abstract

21D113 (Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii,

no. 19, 1960, 7 - 21)

TEXT: Methods for determining Mn, Fe, Ni, and Pb in highly pure electrolytic chromium have been developed. Mn determination is based on removing Cr from perchloro acid solution as CrO₂Cl₂ and photometrically

determining the violet color of MnO_4^- forming after oxidation of manganese by means of periodate. 0.5 g (0.02 - 0.04% Mn) or 1g (0.001 - 0.02% Mn) of chromium is dissolved in 30 milliliters (ml) of concentrated HCl and 30 ml of $HClO_4$ (specific gravity 1.67). The solution is evaporated,

concentrated HCl is added, and the substance is heated until the Card 1/3

31729

S/081/61/000/021/030/094 B101/B147

Determination of manganese...

liberation of CrO2Cl2 vapors has stopped. This process is repeated. dry residue is dissolved in 5 ml of concentrated HCl, 15 ml of $^{
m H_2SO}_{
m A}$ (1:4) is added, and the substance is heated until white $\mathrm{H}_2\mathrm{SO}_{1}$ fume has been formed. After cooling, the salt deposits are dissolved in a minimum amount of water, the solution is filtered, and evaporated to 15 - 20 ml. The residue is mixed with 1 ml of concentrated H_3PO_4 , 20 ml of 2.5% KIO₄ solution, boiled for 5 - 8 min, moderately heated for another 15 - 20 min, cooled, diluted with water to 50 ml, and photometrically measured with a green light filter in a 5-cm cuvette, a standard solution serving for comparison. For determining Fe (0.002) - 0.1%), 0.5 - 2 g of the sample is dissolved in H_2SO_4 (1:4), the Cr is oxidized with ammonium persulfate to Cr^{6+} , and iron and aluminum (as collector) are precipitated with NH3. The precipitate is dissolved, and Fe photometrically determined with o-phenanthroline. Determination of Ni (0.001 - 0.1%) includes its separation from Cr by extracting the Card 2/3

31729

Determination of manganese...

S/081/61/000/021/030/094 B101/B147

nickel dimethyl glyoximate with chloroform from weakly ammoniacal solution, re-extraction of Ni, and photometric determination with dimethyl glyoxime in alkaline medium in the presence of an oxidizing agent. For determining Pb, the latter is coprecipitated by means of H₂S with Cu (as collector). After separation from Cu by precipitation (together with Fe) by means of NH₄OH solution, polarographic determination is performed in hydrochloric acid solution containing NaCl. The effect of atmospheric oxygen, Sb, Bi, Cu, and Fe³⁺ is eliminated by metallic iron reduced with hydrogen. [Abstracter's note: Complete translation.]

Card 3/3

FEDOROV, A.A.; LINKOVA, F.V.

Determination of aluminum oxide in metallic aluminum by hydrochlorination. Zhur.anal.khim. 17 no.1:53-55 Ja-F '62.

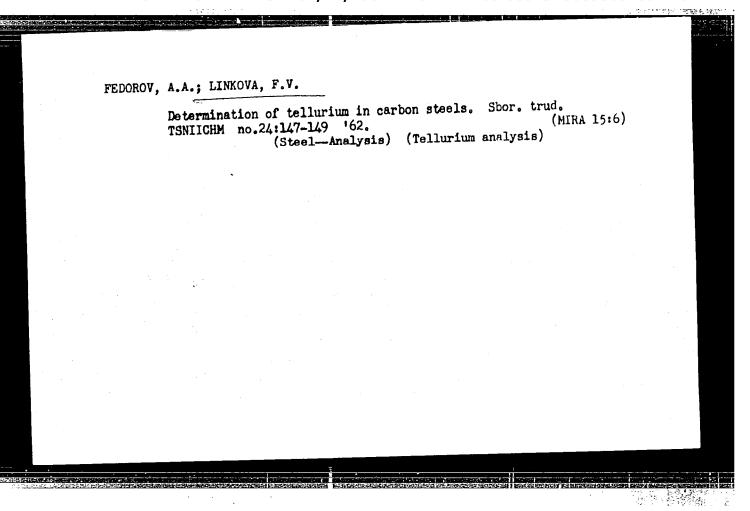
(MIRA 15:2)

1. I.P.Bardin Central Scientific-Research Institute of Ferrous Metal Industry, Moscow.

(Aluminum oxide)

FEDOROV, A.A.; BUYANOV, N.V.; LINKOVA, F.V.; SUKHOVA, N.P.

Spectrochemical determination of hafnium (0.5 - 90 percent)
in zirconium-hafnium and zirconium-titanium-hafnium alloys.
Sbor. trud. TSNIIGHM no.24:188-190 '62. (MIRA 15:6)
(Zirconium-hafnium alloys--Spectra) (Hafnium--Spectra)



Determination of aluminum oxide in aluminum metal. Sbor. trud.
TSNIICHM no.24:172-178 '62. (MIRA 15:6)
(Aluminum-Analysis) (Aluminum oxide—Analysis)

FEDOROV, A.A.; OZERSKAYA, F.A.; LINKOVA, F.V.

Determining micro— and macroquantities of rare-earth elements. Sbor.trud. TSNIICHM no.31:197-199 '63. (MIRA 16:7)

(Raro-earth metals—Analysis)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010011-6"

L 14979_65 EWT(m)/EPF(n)-2/EPA(bb)-2/EWP(b) Pu-4 ASD(a)-5/AFWL/SSD/AEDC(b)/ASD(m)-3/AFTC(p)/RAEM(1)/ESD(gs)/ESD(t) JD/WW/JG/MLK
ACCESSION NR: AT4048093 S/0000/64/000/000/0017/0018

AUTHOR: Fedorov, A.A., Buyanov, N.V., Linkova, F.V., Sukhova, N.P.

TITLE: Spectrochemical determination of hafnium in zirconium-hafnium and zirconium-titanium-hafnium alloys

SOURCE: Spektral'ny*ye i khimicheskiye metody* analiza materialov (Spectral and chemical methods of materials analysis); sbornik metodik. Moscow, Izd-vo Metallurgiya, 1964, 17-18

TOPIC TAGS: titanium alloy, spectroscopy, hafnium determination, hafnium alloy, zirconium alloy

ABSTRACT: The spectrochemical method used for the determination of hafnium in Zr-Hf and Zr-Ti-Hf alloys differs from the earlier methods, in that the alloy sample was dissolved in a mixture of acids, after which the hydroxides were precipitated by ammonia and calcined until the formation of oxides. Analysis was by a spectroscopic method. This method is suitable for determining 0.5 - 90% Hf; the relative error of the method for 0.5-2, 2-10, 10-40 and 40-90 % Hf is 10, 4, 2.5 and 2%, respectively. The sensitivity of the method is 0.1%. The preparation of the sample is described. The spectral

Card 1/2

L 14979-65

ACCESSION NR: AT4048093

analysis was carried out on the ISP-22 spectrograph with a one-lens condenser and a 0.01 mm aperture width. The distance from the lens to the light source was 15 cm, and to the spectrograph aperture, 75 cm. The light source was a spark generator IG-2, C=0.01 microfarad, L=0.01 microhenry, spark gap 3 mm, i=1.7 amps, the distance between the carbon electrodes = 1.5 m. For the determination of 0.5-10% Hf, the pair of lines Hf 2861. 70 - Zr 2856.06 Å were used; for 10-90% Hf, the pair Hf 2861.012-Zr 2810.914 Å were used instead. The experimental data are tabulated. Orig. art. has: 1 table.

ASSOCIATION: Tsentral'ny*y nauchno-issledovatel'skiy institut chernoy metallurgii im. I.P. Bardina (Central Scientific Research Institute of Ferrous Metallurgy)

SUBMITTED: 12Feb64

ENCL: 00

SUB CODE: MM, IC

NO REF SOV: 001

OTHER: 000

Card 2/2

LINKOVA, G.G.

Investigating the effect of the rigidity of a boring bar with bracket fastening on the smoothness of a finely bored surface.

Trudy Od. tekh. inst. 14:15-16 '62. (MIRA 16:12)

1. Rabota vypolnena na kafedre soprotivleniya materialov Odesskogo tekhnologicheskogo instituta. Rukovoditel' raboty doktor tekhn. nauk, prof. Lunets, Ye.B.

LIN'KOVA G.M., aspirant

Age-related characteristics of hydroxyproline content in the muscles of swine. Izr. INMA no. 921-215 '62. (MIN. 16 7)

(Swine—Physiology) (Proline)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010011-6"

1. 在 1. 我基本 編 4. 经 1. 年 2. 年

GOL'DBERG, K.M.; GEL'FANDREYN, N.M.; Prinimali uchastiye: BARIL'OTI,
A.S.; KAPUSTINA, A.I.; LINKOVA, L.M.; STRUKOVA, V.A.; SERKOVA,
L.V.; FRADKINA, TS.Ye.

Anticorrosive alkyd GF-020 priming. Lakokras.mat.i ikh prim. no.2:71-74 '62. (MIRA 15:5)

1. Khar'kovskiy lakokrasochnyy zavod "Krasnyy khimik". (Protective coatings)

Lin Kova, 111.0.

USSR/Chemistry - Conversions

Card 1/2

Pub. 40 - 8/27

Authors

Knunyants, I. L.; Lin'kova, M. G.; and Ignatenok, P. G.

Title

Conversions of mercaptoamino acids. Part 1. Isodimethyloysteine and its

derivatives

Periodical

Izv. AN SSSR. Otd. khim. nauk 1, 54-61, Jan-Feb 1955

Abstract

Data are presented on the addition reaction of sulfur chlorides and alkylthiochlorides to dimethyl acrylic acid and its ester. In contrast to the
addition reaction of sulfur chlorides to clefins, which results in the formation of symmetrical sulfides, the addition to dimethylacrylic acid and
its esters is concluded by the formation of stable sulphene chlorides.

Institution:

Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Org. Chem.

Submitted

April 9, 1954

Card 2/2

Pub. 40 - 8/27

Periodical

Izy. AN SSSR. Otd. khim. nauk 1, 54-61, Jan-Feb 1955

Abstract

It was found that the reaction between the addition products and ammonia results in the formation of alpha-mercapto-beta-aminoisovaleric acid which is an isomer of natural dimethycysteine and some of its derivatives. Two references: 1 German and 1 USA (1905-and 1946).

Kova,

USSR/ Chemistry - Conversions

Card 1/2

Pub. 40 - 9/27

Authors

Knunyants, I. L., and Lin'kova, M. G.

Title

Conversions of mercaptoamino acids. Part 2. Acylation and alkylation

of dimethylcysteine

Periodical :

Izv. AN SSSR, Otd. Khim. nauk 1, 62-70, Jan-Feb 1955

Abstract

Experimental data are presented showing that dimethylcysteine acylates easily with acid anhydrides and acid chlorides resulting in the formation of only N-acyl derivatives. The aqueous-alkaline dimethylcysteine solutions alkylate easily, especially with halide substituted acids, forming only S-alkyl derivatives.

Institution :

Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Org. Chem.

Submitted

April 9, 1954

Card 2/2 Pub. 40 - 9/27

Periodical Izv. AN SSSR, Otd. khim. nauk 1, 62-70, Jan-Feb 1955

When combined with acid chlorides of beta-halide substituted carboxylic acids dimethylcysteine produces derivatives of 1-thio-5-azocycloheptanone-4. The products obtained through S-alkylation of dimethylcysteine with Abstract alpha-bromocarboxylic acids are described. Three USA references

Lin Kova, 11.

USSR/ Chemistry - Conversions

Card 1/1 Pub. 40 - 10/27

Authors : Knunyants, I. L.; Kill'disheva, O. V.; and Lin'kova, H. G.

Title : Conversions of mercaptoamino acids. Part 3. Acylation and alkylation

of dimethylcysteine

Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 71-77, Jan-Feb 1955

Abstract

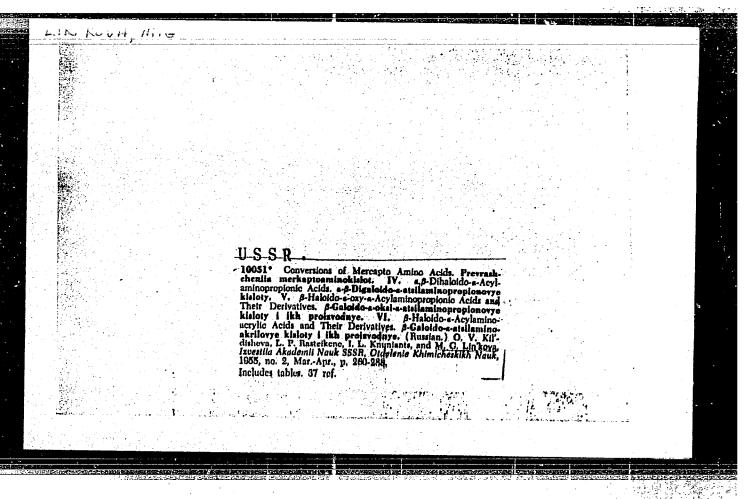
The derivation of various N-acrylic derivatives of dimethylcysteine containing Br, Cl and methoxyl in the acyl radical is described. It is shown that the above mentioned derivatives cyclate as a result of the intramolecular attachment of the mercapto group of dimethylcysteine in place of the multiple bond of the crylic radical forming l-thia-5-aza-cyclo-heptanone

-3. The results obtained from the reaction of dimethylcysteine with unsaturated acids and their derivatives, are explained. One USSR reference

(1955).

Institution : Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Org. Chem.

Submitted : April 9, 1954



LIN'KOVA, M

USSR/ Chemistry - Biochemistry

Card 1/1

Pub. 40 - 11/26

Authors

*Kil'disheva, O. V.; Lin'kova, M. G.; and Knunyants, I. L.

Title

Conversions of mercaptoamino acids. Part 5. Beta-halogeno-alpha-oxy-

alphaacylaminopropionic acids and their derivatives

Periodical : Izv. AN SSSR. Otd. khim. nauk 2, 271 - 281, Mar-Apr 1955

Abstract

It was established experimentally that alpha, beta-dihalogeno-alpha-aclyaminopropionic acids easily exchange the halogen atom oriented in alphaposition into oxy, alkoxy, acetoxy and other groupings. It is shown that alpha-oxy-, alpha-alkoxy-beta-halogeno-alpha-phenacetylaminopropionic acids in the presence of acetic anhydride convert easily into 2-benzyl - 4 halogenomethyleneoxazolones. The product obtained from the reaction of beta-chloro-alpha-benzoylamino-alpha-oxypropionic acid with acetic anhydride is described. One USSR reference (1955). Table.

Institution: Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

Submitted April 9, 1954

LINKOVA,

USSR/ Chemistry - Biochemistry

Card 1/1

Pub. 40 - 12/26

Authors

s Kil'disheva, O. V.; Lin'kova, M. G.; and Knunyants, I. L.

Title

Conversions of mercaptoamino acids. Part 6. Beta-halogeno-alpha-acylamino acrylic acids and their derivatives

Periodical : Izv. AN SSSR. Otd. khim. nauk 2, 282 - 288, Mar-Apr 1955

Abstract

1 It is shown that thermal cleavage of hydrogen halide from alpha, beta-dihalogeno-alpha-acylaminopropionic acid results in the formation of betc-halogenoalpha-acylaminoacrylic acid. The product obtained from the reaction of the acrylic acid with acetic anhydride is described. The derivation of the first representative of unsaturated internal anhydrides of carboxyamino acid - internal anhydride of alpha-carboxyamino-beta-bromacrylic acid - during the reaction of beta-bromo-alpha-carbobenzyloxysminoacrylic acid with dehydrating agents is discussed. Six references: 4 USA and 2 USSR (1947-1955). Tables.

Institution: Acad. of Sc., USSR, The N. D. Zelinskiy Ins. of Organ. Chem.

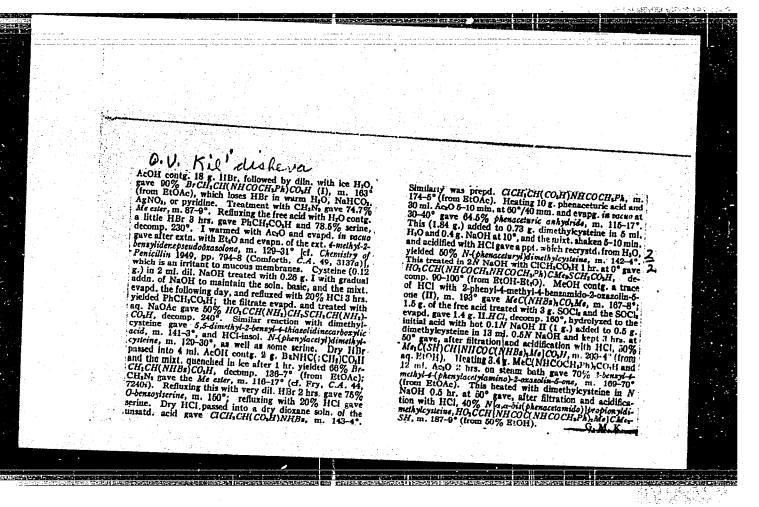
Submitted

: April 9, 1954

LINKONA, M.G

Transformations of mercapto amino acids. VII. Transformations of 2,3-dihalo-2-acytaminopropionic acids. (Acylory) pyruvic acids. O. V. Kii'disheva, M. O. Lin'kova, and I. L. Knunyants (N. D. Zelinskii Inst. Org. Chem. Acad. Sci. U.S.S.R., Moscow). Iswell. Akad. Nauk Sci. U.S.S.R., Oidel. Khim. Nauk 1955, 462-61; Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci. 1935, 401-8 kingl. translation); C.A. 50, 4914d.—The action of H₂O over a wide pil range converts dihalo(acylamino)propionic acids into (acyloxy)pyruvic acids through intermediate 2-phenyl-4-hydroxy-4-carboxyoxazolinones. Treatment of 4.5 f. Br. CH₂CBr(NHCOCH₂Ph)CO₂H (I) with 2.1 g. NaHCO₃ in 20 ml. H₂O and acidification to pH 1.5 with HCI gave a ppt. of 24% BrCH₂Q(OH/NNHCOCH₂Ph)CO₃H, m. 105-6°; evapa. of the mother liquor and extn. with Eto yielded 17% (phenylacetoxy)pyruvic acid hydrate, m. 57-8° (from CHCl₃), giving a red color with FeCl₃ (2,4-dinitro-phenylhydrazone, m. 168-70°, identical with an authentic specimen). The acid forms a sparingly sol. Na sait. Similarly BrCH₂CBr(NHBz/CO₃H, m. 92-3°, and a moderate specimen). The acid forms a sparingly sol. Na sait. Similarly BrCH₂CBr(NHBz/CO₃H, m. 98-70° (from CHCl₄) (2,4-dinitrophenylhydrazone, m. 168-70°, identical with FeCl₄ in 0.5N NaOH gave BzOH. The mother fliquor yielded BrCH₂(COH/NHBs)CO₃H, m. 99² and 114°, whose structure is uncertain; this yields a 1,4-dinitrophenylhydrazone, m. 168-70°, identical with that from BrOCH₂CO₃O₄H, MeONa₃MeOH 2 hrs. gave the Me ester, m. 50° (CHC) and m. 110°, of 2-phenyl-4-mihoxy-2-oxasioine-4-carboxylic acid (III); 2N NaOH in MeOH similarly gave

the Na salt M III, sol. in EtOH and H₂O; acidification yielded B2OCH₂COCO₂H. 3.3-Dimethyleysteine (IV) (0.3 g.), 0.10 g. NallCO₃, 5 ml. H₂O, and 0.6 g. BrCH₂COH)-(NHCOCH₂Ph)CO₃H-kept 12 hrs. gave a ppt. of mone-Na salt of 6.6-dimethyl-2-(phenylacetoxymethyl-2.4-thiasacidismedicarboxylic acid (V); free V, decomp. 160-7° (from aq. Me₂CO) (pure, decomp. 167-8°). The same result was obtained with I and 2 moles NaHCO₃. V with CH₃Ns gave apparently d-Me₂ 5.6-dimethyl-2-(phenylacetoxymethyl-methyl-2,4-thiasacidismedicarboxylate, m. 101-2° (from Bt. IV (1.9 g.), 20 ml. H₃O, and 4.3 g. II kept 12 hrs. gas 30.0% dicarboxylic acid, decomp. 166-6° (from dil. Me₂CO) alow yield of this also formed from IV and II in aq. NaHCO₃, along with a fair yield of B2OCH₂COCO₃H hydrate, isolated as the Na salt; the dicarboxylic acid cleaved with HgCl₃ gave the same 2.4-dinitrophenylhydrazone, m. 187-8°, of B2OCH₂COCO₃H as described above. This with activated Al in 80% BtOH gave 28% alanine, with traces of serine and O-benzoylserine, detected chromatographically. Similar reduction of the 2.4-dinitrophenylhydrazone of PhCH₃COCO₄H gave serine, alanine, and O-dinitrophenylhydrazone of HOCH₂COCO₄H gave serine and alanine (chromatographic estin.), while O-benzoylserine acylation of cysteine and dimethylcysteine by the derivatives of 2-acylamino-3-haloproplant acids. I. L. Knunyants and V. V. Shokina. Isnett. Acid. Nauk S.S.S.R., Oid. Khim. Nauk 1955, 402-71; Bull. Acad. Sci. O.S.S.R., Div. Chem. Sci. 1955, 402-71; Bull. Acad. Sci. O.S.S.R., Div. Chem. Sci. 1955, 402-716 Bagl. translation).—Keeping 20.5 g. PhCH₃CONHC(:CH₃)CO₃H overnight in 70 ml.

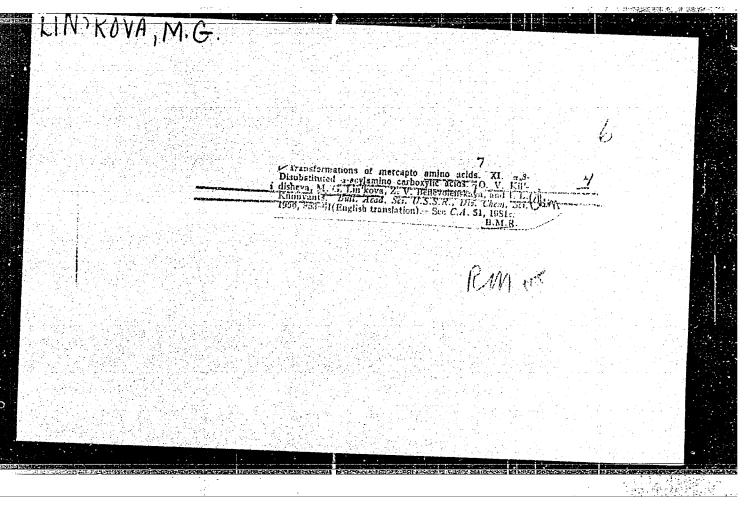


LIN'KOVA,M.G.; KIL'DISHEVA,O.V.; KHUHYANTS,I.L.

(3-thiolactones. Inv.AN SSSR. Otd.khim.nauk no.3:569-570
My-Je '55. (MIMA 8:9)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk
SSSR (Thiolactones)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010011-6"



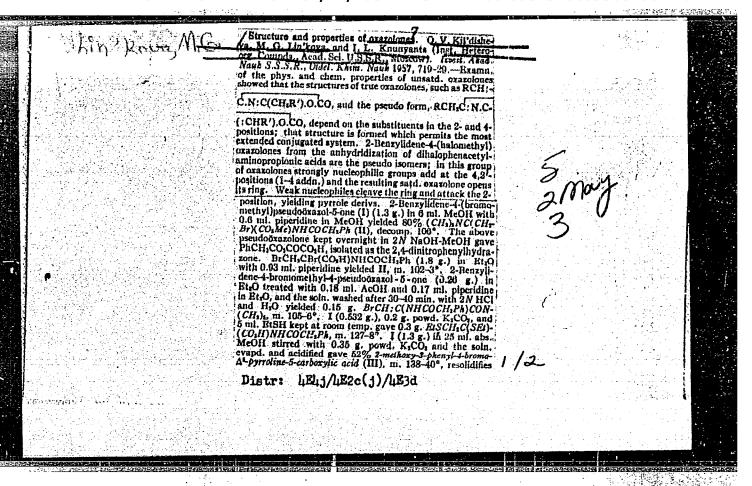
KIL'DISHEVA, O.V.; LIN'KOVA, M.G.; BENEVOLENSKAYA, I.L.

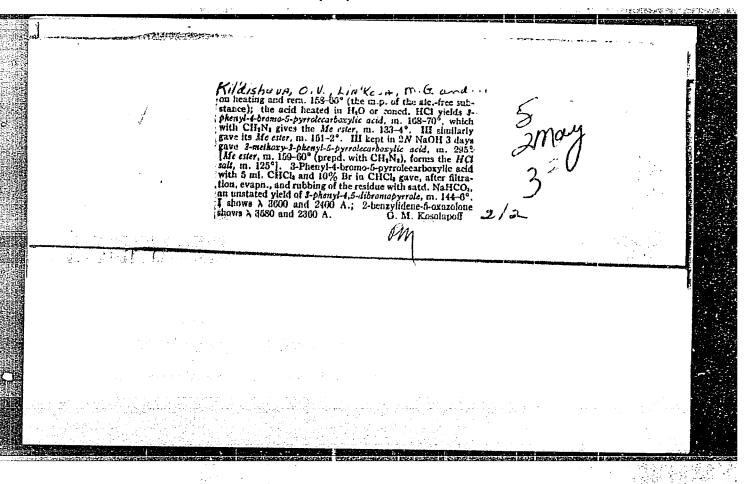
Conversions of mercapte amine acids. Part 11. omega -disubstituted--omega-acylaminecarbexylic acids. Izv.AN SSSR Otd.khim.nauk ne.7:834-842 J1 '56. (MLRA 9:10)

1. Institut elementeergamicheskikh seyedinemiy Akademii nauk SSSR. (Acids, Fatty)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010011-6"

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KNUNYANTS, I.L.; PHRVOVA, Ye. Ta.; LIN'KOYA, M.G.; KIL'DISHEVA, O.V.

p-Thiolactones, their polycondensation and polymerization. Khim. nauka 1 prom. 3 no.2:278-279. 58. (MIRA 11:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Lactones)

5(3)

AUTHORS:

Kil'disheva, O. V. Lin'kova, M. G., SOV/62-58-11-12/26

Savosina, V. M., Knunyants, I. L.

TITLE:

∞,/≤-Disubstituted ∞-Acylamino Carboxylic Acids

 $(\alpha, \beta$ -Dizameshchennyye α -atsilaminokarbonovyye kisloty)

Communication II. A New Method of Forming

Oxazole-4-Carboxylic Acids (Soobshcheniye 2. Novyy sposob

obrazovaniya oksazol-4-karbonovykh kislot)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1958, Nr 11, pp 1348-1353 (USSR)

ABSTRACT:

It has been communicated (Ref 1) that α , β -dihalogen- α -acylamino propionic acids easily react with water, alcohols, and amines and that they form α -substituted α -acylamino- β -halogen carboxylic acids (I). Further investigations have demonstrated that α , β -dihalogen- α -acylamino propionic acids easily react with mercaptans and according to the halogen (chlorine or bromine) mono- or dialkthio acids are obtained. In this paper a new reaction

for the formation of oxazole carboxylic acids from &-acylamino- \beta-halogen acrylic acids is demonstrated.

Card 1/3

d-substituted d-acylamino-β-halogen propionic acids

∠, / Disubstituted ∠-Acylamino Carboxylic Acids. SOV/62-58-11-12/26 Communication II. A New Method of Forming Oxazole-4-Carboxylic Acids

SOV/62-58-11-12/26

Oxazole-4-Carboxylic Acids

Oxa

transform into oxazoline carboxylic acids under the action of alkali. They form according to the conditions either acyloxy-pyroracemic acids or exazole carboxylic acids. The mechanism of formation of acyloxy pyroracemic acid from consubstituted concerned already earlier (Ref 3). In this paper a mechanism of formation of exazole carboxylic acids from consumer of formation of exazole carboxylic acids from consumer of formation of exazole carboxylic acids from consumer of formation of exazole carboxylic acid from consumer of exactly acids acid from consumer of exactly acids takes place over a stage of formation of 2-aryl (or alkaryl)-4-substituted exazoline-4-carboxylic acids without preceding transition into the corresponding consumer of exceptanino-point acids. There are 7 references, 3 of which are Soviet.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-organic Compounds of the Academy of Sciences, USSR)

Card 2/3

5(3) AUTHORS:

Lin'kova, M. G., Patrina, N. D.,

SOV /20-127-3-23/71

Knunyants, I. L., Academician

TITLE:

A New Method of Producing Propiothiolactone.

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 3, pp 564-566

(USSR)

ABSTRACT:

Under the influence of chloro carbonic acid ester, β -propiothiolactone is developed by β -mercapturic acids (Refs 1-3) in the presence of triethylamine. It proved, however, that the same thiolactones can be developed more easily by an influence of H_2S on the chlorides of β -halogen-carboxylic acids. The

extension of the reaction (I) on the chlorides of other β -halogen-carboxylic acids showed that the new method is of universal validity for the production of β -propiothiolactone.

A careful investigation of the formation conditions of

 α -propiothiolactone showed that, according to the permanence of the developing β -propiothiolactone, in some cases sodium sulphide may be used instead of H₂S. In order to prevent

Card 1/2

a splitting of the developing thiolactone, the temperature

A New Method of Producing Propiothiolactones

SOV/20-127-3-23/71

has to be kept low, the theoretical amount of triethylamine has to be used and too great an excess of ${\rm H}_{2}{\rm S}$ has to be

prevented. Besides, the formation possibility of α,α -diphenyl- β -propio-thiolactone by dehydration (angidratizatsya) of α,α -diphenyl- β -mercapto-propionic acid was proved; for this purpose one may use either chlorocarbonic ester or anhydride of phosphoric acid. The dehydration of β -oxy-acids, however, takes place under the development of unsaturated α,β carboxylic acids. In case of α,α -bi-substituted β -oxy-acids, no β -propiolactone develops, but a reaction takes place contrary to the aldol condensation (Refs 4,5) (see scheme). β,β -ditrifluorine-methyl- β -oxy-propionic acid is an exception, since β,β -difluorine-methyl- β -propiolactone was produced from it recently, in the laboratory mentioned in the Association. There are 6 references, 3 of which are Soviet.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute for Elemental-organic Compounds of the Academy of Sciences, USSR)

SUBMITTED:

May 20, 1959

Card 2/2

5 (3)

· AUTHORS:

Lin'kova, M. G., Patrina, N. D., Knunyants, I. L., Academician

507/20-127-4-19/60

TITLE:

Addition of Alkyl-sulphenchlorides to Acrylic Acid Derivatives

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 4, pp 799-802

(USSR)

ABSTRACT :

According to the polarity of the chlorides, referred to in the title the addition mentioned there does not present any difficulties resulting in the formation of $\alpha\text{-alkyl-thio-}\beta\text{-chlorine-substituted}$ acids (see Scheme) (Ref 1). It was necessary to check the data contained in reference 2, in which the author ascribes the structure of the a-chloro-3-alkyl thioderivatives of propionic acid to these addition products (see Scheme). Further investigations of the reaction mentioned in the title, by the authors have again confirmed the opinions stated by them before and have refuted the opinion expressed in reference 2, i. e. the addition of the ethyl-sulphen-chloride to acrylic, methacrylic, and dimethyl-acrylic acid, to the acrylonitrile, as well as to the acid chloride and the ethyl ester of dimethyl acrylic acid results in the formation of β -chloro-x-alkyl thioderivatives of propionic acid (see Scheme). During this

Card 1/3

CIA-RDP86-00513R000930010011-6" **APPROVED FOR RELEASE: 07/12/2001**

Addition of Alkyl-sulphenchlorides to Acrylic Acid 507/20-127-4-19/60 Derivatives

while it is more difficult to add it to acids and nitriles, and most difficult to add it to acid chlorides (Ref 1). From the acid chlorides of 3-chloro-u-alk thioderivatives of propionic acid corresponding \(\beta \)-propiothiolactones (Ref 5) were obtained by means of HoS (see Scheme). With an order other than that illustrated by the scheme, the formation of the said lactones would be impossible. Without cogent reasons Gundermann has given his consent to the assertions of Brintzinger (Ref 2) according to which the alkyl thiogroup assumes a B-position under the action of sulphen chlorides on acryl systems, whereas the chlorine atom assumes an a-position. To give a definite explanation of this problem the authors prepared 4-chloroethyl thiopropionitrile (I) and u-ethyl thio-3-chloro propionitrile (II) and compared their properties with one another. By adding ethyl mercaptan to α -chloro acrylonitrile (Ref 7) the following reaction was brought about:

reaction the ethyl-sulphen chloride is easily added to esters,

Card 2/3

$$c_{2} \xrightarrow{c_{2}H_{5}SH} c_{2}H_{5}S - c_{2}CH_{2} - cHCICN \qquad (1).$$

Addition of Alkyl-sulphenchlorides to Acrylic Acid

SOV/20-127-4-19/60

while by the addition of ethyl sulphen chloride to acrylonitrile the following reaction took place:

 $cH_2 \xrightarrow{c_2H_5 sc_1} cH_2 clcH(sc_2H_5) cN$ (II)

It was found that I and II showed the same boiling point, refractive indices and specific weights whereas they differ greatly in their chemical properties; nor are their infrared spectra the same (Figs 1 and 2). Hence, the negative charge in alkyl sulphen chlorides is concentrated on the chlorine atom, and that alkyl-sulphen chlorides are added to acryl systems according to the above polarization thus forming u-alkyl thioderivatives. There are 2 figures and 7 references, 2 of which are Soviet.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk 333R (Institute for Elemental-organic Compounds of the Academy of Sciences, USSR)

SUBMITTED: Card 3/3

May 20, 1959

LIN'KOYA. M.G.; PATRINA, N.D.; KHUNYANTS, I.L.

Properties of &, & -diphenyl-\$\beta\$-propiothiclactone. Izv. AN SSSR Otd. khim. nauk no.10:1825-1827 0'60. (MIRA 13:10)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR. (Lactones)

KNUNYANTS, I.L., akademik; KULESHOVA, N.D.; LIN'KOVA, M.G.

Structure of the products from the addition of alkyl sulfenyl chlorides to unsaturated acids. Dokl. AN SSSR 135 no.1:81-83 N'60.

(MIRA 13:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Sulfenyl chloride)

KNUNYANTS, I. L.; LIN'KOVA, M. G.; KULESHOVA, N. D.

Preparation and properties of some B-thiolactones. Izv AN SSSR Ser Khim no. 4:644-651 Ap '64. (MIRA 17:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010011-6"

LIN'KOVA, M.G.; KULESROYA, N.D.; KNUNYANTS, I.L.

Thiolactones. Usp. khim. 33 no.10:1153-1183 0 '64.

(MIRA 17:11)

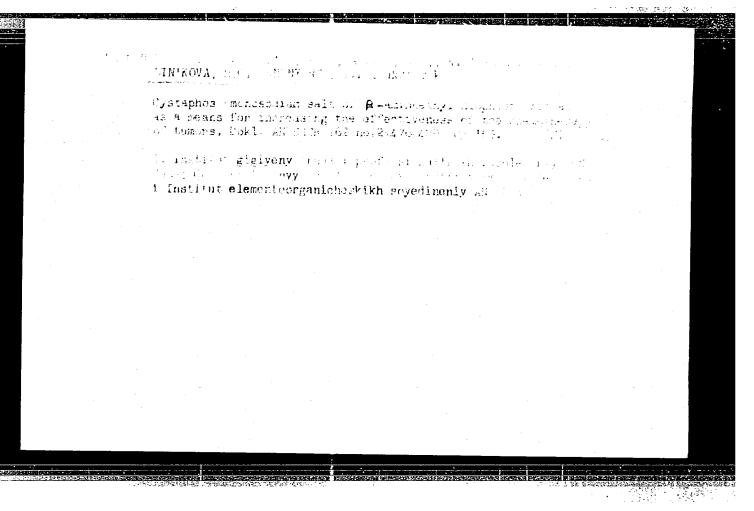
1. Institut elementoorganicheskikh soyedineniy AN SSSR.

KNUNYANTS, I.L.; KUIESHOVA, N.D.; LIN'KOVA, M.G.

\$\beta\$ -Propiothiolactone. Izv. AN SSSR. Ser. khim. no.6:1081-1082 '65.

(MIRA 18:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.



L 05167-67 EWT(m)/EWP(j) WW/RM ACC NR: AP7000733 SOURCE COPP. IN 1997 (2017)	· · · · · · · · · · · · · · · · · · ·	
SOURCE CODE: UR/0062/66/000/006/10 KININYAMTS, I. L., LIN'KOVA, M. G., VELLER, N. L., Institute of Heteroorganic Compounds, Academy of Sciences USSR (Institute algorithms and Institute of Heteroorganic		
AN SSSR)	dy (
"Structure of Addition Products of Phenylsulfene Chloride to Derivatives of Acrylic Acid"	B	
Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 6, 1966, pp 1075-1080	•	a.
Abstract: The addition of phenylsulfene chloride to acrylonitrile gives a mix ture of isomers: alpha-chloro-beta-phenylthiopropionitrile (I) and beta-chloro-alpha-phenylthiopropionitrile (II), with a predominance of the latter. (I) was also synthesized by the addition of thiophenol to alpha-chloroacrylonitrile. The properties of (I) and (II) were compared: splitting out of hydrogen chloride with triethylamine; saponification of the nitrile group; oxidation with hydrogen peroxide; reactions of derivative sulfones. Orig. art. has: 9 formula [LPRS: 37,023]	.	
TOPIC TAGS: acrylonitrile, sulfone	į	
SUB CODE: 07 : SUBM DATE: 19Dec64 / ORIG REF: 001 / OTH REF: 005	:	
Card 1/1 vmb	 	
Card 1/1 vmb UDC: 542.95 + 661.719	, ,	î F
)		

ACC NR: AP6031648

SOURCE CODE: UR/0020/66/170/001/0096/0098

AUTHOR: Lin'kova, M. G.; Orlov, A. M.; Knunyants, I. L. (Academician)

ORG: Institute of Organometallic Compounds, Academy of Sciences, SSSR (Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR)

TITLE: New reaction of 8-propiothiclactones

SOURCE: AN SSSR. Doklady, v. 170, no. 1, 1966, 96-98

TOPIC TAGS: lactone, organic sulfur compound

ABSTRACT: It was found that β -propiothiolactones are readily cleaved by chlorine to yield chlorides of the corresponding chlorosulfenylpropionic acids. The following reactions were carried out:

$$R = R' = H$$
 (I) $R = CH_0$, $R' = CI$ (II) $R = CH_0$, $R' = CI$ (IV)

Aniline reacts with (III) to form anilide (V):

CICH,CH,SCH,CH,COCI MH,CH, CICH,CH,SCH,CH,CONHC,H,

Card 1/2

TDC: 542.91+547-314

ACC NR: AP6031648

2,2'-Dichloro-3,3'-dithiodiisobutyric acid (VI) was prepared as follows:

$$CISCH_{3}CCOCI \xrightarrow{H_{3}O} \left[JSCH_{3}CCOCI \right] \rightarrow \left(-SCH_{4}CCOOH \right)_{3}$$

$$CI \qquad (VI)$$

In liquid ammonia, (VI) readily exchanges a chlorine atom for an amino group to form α, α' -dimethyloystine (VII):

$$\left(-\text{SCH}_{\text{3}}\text{COOH}\right)_{\text{3}} \xrightarrow{\text{KII}_{\text{4}}} \left(-\text{SCH}_{\text{5}}\text{COONH}_{\text{4}}\right)_{\text{3}} \left(-\text{NH}_{\text{5}}\text{COONH}_{\text{6}}\right)_{\text{3}}$$

In many cases, this method may be the simple t in preparing cystine homologs.

SUB CODE: 07/ SUBM DATE: 05Feb66/ ORIG REF: 001/ OTH REF: 007

Card 2/2

L 05168-67 EWT'-\/EWP(1) WW/RM ACC NR. AP700073 SOURCE CODE: UR/0062/	66/000/006/1069/1075
KNUNYANTS, I. L. LIN'KOVA, M. G., KULESHOVA, N. D., Institute of Compounds, Academy of Sciences USSR (Institut elementoorganiches AN SSSR) "Structure of Ad ition Products of Methyl- and Ethylsulfene Chlomerivatives of Arylic Acid"	skikh soyedineniy
Moscow, Izvestiy Akademii Nauk SSSR, Seriya Khimicheskaya, No 6 pp 1069-1075	, 1966,
Abstract: In the addition of alkylsulfene chlorides to acrylic tives CH ₂ =CHR (R = COOH, COOCH ₃ , CN, CONH ₂) a mixture of isomers and CH ₂ -CH-R (II) is formed, the ratio of which depends upon the SR' Cl	CH ₂ -CH-R (I)
R. The more electronegative the substituent, the higher the concentration in the mixture of addition products of alkylsulfene acrylic acid derivatives. A reaction mechanism is proposed, which the experimental data and accounts to the ratio of the isomers in of addition products, the ease of isomerization of II and I, and the reverse isomerization is not observed. Orig. art. has: 12 for TOPIC TAGS: organic sulfur compound, isomerization, acrylic acid SUB CODE: 07 / SUBM DATE: 27Mar64 / ORIG REF: 001 / OTIC Cord 1/1 ymb.	chlorides to ch agrees with the mixture the fact that ormulas. JPRS: 37.0237

C. N. ANDROSOV, P.I., doktor meditsinskikh nauk; BABKIN, S.I., kandidat tekhnicheskikh nauk; BOBROV, B.S., inzhener; LIN'KOVA, M.N., vrach. Instruments for applying tobacco bag sutures and methods of use (MLRA 8:11) Vest.khir.76 no.8:130-135 S '55. 1. Is Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy appratury i instrumentov (Dir. M.G. Anan'yev) Moskva, I-81, Fabrichnaya liniya, d. 6. (GASTROINTESTINAL SYSTEM, surg. pouch sutures, instrument for application & method) pouch sutures in gastrointestinal surg., instrument for application & method) (SURGERY, OPERATIVE, appratus and instruments instrument for application of pouch sutures in gastrointestinal surg.)

ANDROSOV, P.I.; BABKIN, S.I.; BOBROV, B.S.; LIN'KOVA, M.N.

Letters to the editor. Vest.khir. 77 no.4:154 Ap '56. (MLRA 9:8)

(SURGICAL INSTRUMENTS AND APPARATUS)

Experimental prerequisites for clinical use of the apportons for suturing the stomach stump. 117

Noyye khirurgicheskie apparaey i instrumenty i opyt ikh primeneniye (New SURGICAL Equipment and Instruments and Experience in Their Use) NC. 1, Moscow, 1907. A collection of Papers of the Scientific Research Inst. for Experimental Surgical and Instruments.

NIIEKHALL

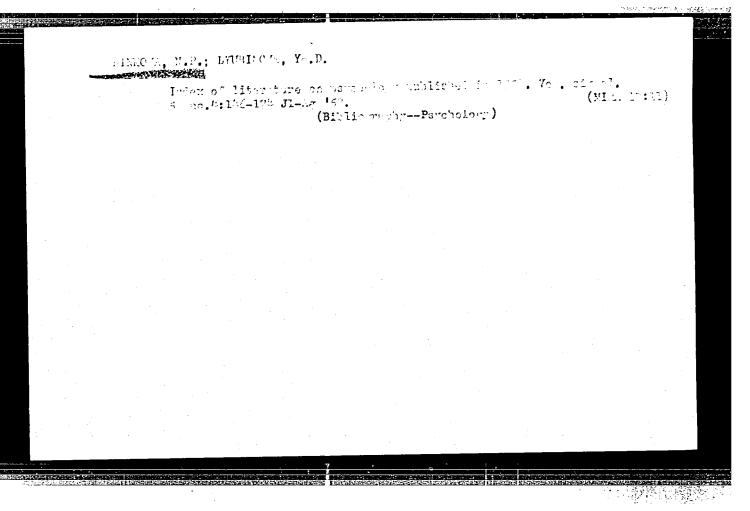
THE STRAIN, J. S.

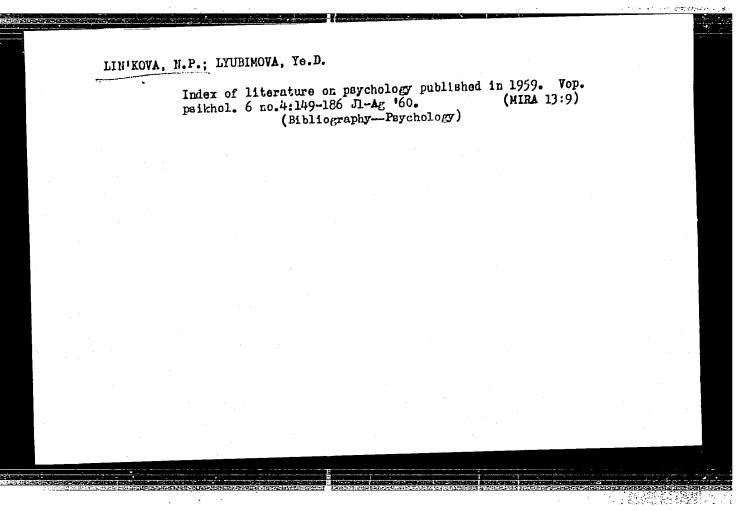
LIN'KOVA, N. G.

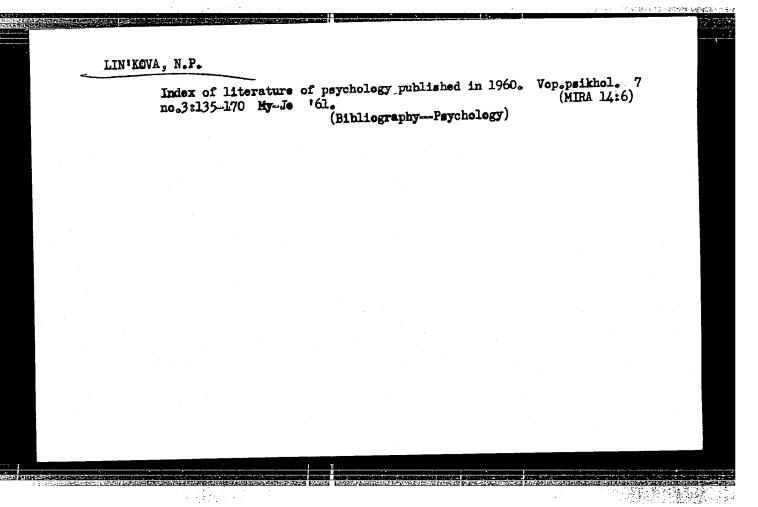
Nurses and Nursing

Ninth scientific conference of nurses in the city of Moscow. Med.sestra 5, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.







LIN'KOVA, N.V.; OSOKINA, R.M.; RATNER, B.S.; AMIROV. R.Sh., sotrudnik; AKINDINOV, V.V., sotrudnik Photoprotons from Gu⁶⁵. Zhur.eksp.i teor.fiz. 38 no.3: 780-789 Mr ¹60. 1. Fisicheskiy institut im. P.N. Lebedeva Akademii nauk SSSR. 2. Saratovskiy gosudarstvennyy universitet (for Amirov, Akindinov).
(Protons) (Copper--Isotopes)

VORONIN, L.G.; GUSEL'NIKOVA, K.G.; IORDANIS, K.A.; BETELEVA, T.G.; LINKOVA, N.V.; POLYANSKIY, V.B.

Effect of electric stimulation of the reticular formation on conditioned reflex activity. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 6:195-202 ¹61. (MIRA 14:12)

1. Iz Laboratorii sravnitel'noy fiziologii vysshey nervnoy deyatel'nosti, zav. - L.G. Voronin.
(CONDITIONED RESPONSE)

L 21127-66 EWT(1)/EWP(m)/T-2 IJP(c)
ACC NR: AF6003220

SOURCE CODE: UR/0382/65/000/004/0148/0152

AUTHOR: Andreyev, A. V.; Andres, U. Ts.; Lin'kova, S. A.

ORG: none

TITLE: Experimental investigation of the electromagnetic displacement of spherical

bodies and sets of bodies from a conducting liquid in a compressed state

SOURCE: Magnitnaya gidrodinamika, no. 4, 1965, 148-152

TOPIC TAGS: conductive fluid, magnetic separation, MHD, solid solution

ABSTRACT: Four sets of bodies of regular and irregular form were investigated. The ejecting force was studied by changing currents and fields. The restraints increased in the direction of the current vectors and decreased in the direction of the magnetic field. When restraints in all directions occur, the magnitude of the displacement force does not equal the sum of applied forces. It was also found that the variation of solid body concentration did not influence the electromagnetic displacement force. The experimental apparatus and methods are described. This research is applicable to the MHD separation of raw materials. Orig. art. has: 6 figures.

SUB CODE: 20/

SUBM DATE: 12Mar65/

ORIG REF: 004/

OTH REF: 006

Card 1/1 dat

UDC: 538.4:622.771.7

ACC NR: AP7005438

SOURCE CODE: UR/0382/66/000/002/0148/0152

ANDRES, Y. TS.; LIN'KOVA, S. A.

'ORG: none

"Effect of Crossed Electric and Magnetic Fields on the Pseudo-Fluidization Process of Solid Particles in a Conducting Fluid"

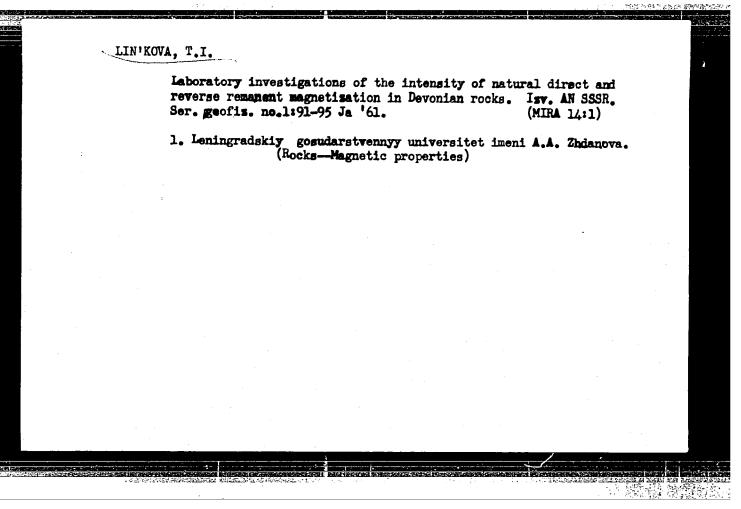
Riga. Magnitnaya Gidrodinamika. (Magnetohydrodynamics). No. 2. 1966, pp 148-152 TOPIC TAGS: electric field, magnetic field

Abstract: An experimental investigation is made of the behavior of a layer of nonconducting particles suspended in an electro-lyte under the influence of crossed electrical and magnetic fields. The experiment was conducted in a square column 0.15 m tall with a $4 \times 4 (10^{-4})$ m cross section. The nonconducting suspension consisted of plastic particles suspended in a rising column of KOH. Alone, neither the electrical field nor the magnetic field had any noticeable effect on the layer. In the range of measurements made no significant differences were noted in the behavior of the suspended layer as compared with that in ordinary pseudofluidization; however, the Lorentz force markedly expands the layer. The ejection force coefficient is determined under static conditions as a function of layer porosity. It is found that this coefficient becomes larger as the concentration of the solid phase is increased. Orig. art. has: 5 figures and 4 formulas. [JPRS: 38,764] SUB CODE: 20 / SUBM DATE: 230ct65 / ORIG REF: 008 Card 1/1 UDC: 622.771.7:538./

LIN'KOVA, T.I.

Paleomagnetic investigation of sedimentary Devonian rocks in the northwestern part of the Russian Platform. Izv.AN SSSR. Ser.geofiz. no.6:868-870 Je 60. (MIRA 13:6)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova. (Russian Platform---Rocks----Magnetic properties)



LIN'KOVA, T.I.

Some results of the paleomagnetic studies of Devonian sedimentary rocks. Izv. AN SSSR. Ser.geofiz. no.2:318-323 F '63. (MIRA 16:3)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova. (Russian Platform-Rocks, Sedimentary-Magnetic properties)

L 04734-67 EWI(m)/EWP(j) IJP(c) DG/RM
ACC NR: AP6027010 (A) SOURCE CODE: UR/0080/66/039/005/1136/1140
AUTHOR: Bebikh, G. F.; Lin'kova, V. S.; Vol'fkovich, S. I.
ORG: Moscow State University im. M. V. Lomonosova (Moskovskiy gosudarstvennyy universitet)
TITLE: Phosphorylation of rubbers
SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 5, 1966, 1136-1140
TOPIC TAGS: phosphorylation, synthetic rubber, butadiene styrene rubber, ion exchange resin, IR spectrum
ABSTRACT: The authors continued their studies on phosphorylation of rubbers to try to obtain stronger cationites with greater ion exchange capacity. Butadiene styrene SKS-30 and SKS-85, and butadiene nitrile SKN-18, SKN-26 and SKN-40, on phosphorylation with P ₂ S ₅ gave phosphorus-containing materials melting well above 200°C, insoluble in organic solvents, acids and alkalis. The ion exchange capacity of these cationites (with the exception of SKS-85, which is only 1.04) is 6-7 mg equiv/gm. The position of the phosphono groups in the rubber macromolecules was established with the help of IR spectroscopy. The authors thank V. M. Shats for conducting tests (on the sorption of
Card 1/2 UDC: 661,183,123

L 04734-67 ACC NR: AP6027010							D			
scandium by cationites based on SKS-30 and SKN-26). 2 tables, 3 figures and 2 formulas.					Orig.	:				
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SPEKTOROV, K. S.; LIN'KOVA, Ye. A.

On a new simplified method of synchronizing chlorella cultures.

Dokl. AN SSSR 147 no.4:967-969 D 162.

(MIRA 16:1)

1. Institut fiziologii rasteniy im. K. A. Timiryaseva AN SSSR. Predstavleno akademikom A. L. Kursanovym.

(Chlorella)
(Algae—Cultures and culture media)

SPEKTOROV, K.S.; LIN'KOVA, Ye.A.

Effect of light intensity and temperature on the growth and development of a synchronous culture of Chlorella pyrenoidosa Pringsh. 82. Fiziol. rast. 10 no.6:667-672 N-D '63. (MIRA 17:1)

1. K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.